

(Fed-X'ed)

April 4, 2013

Mr. George Czerniak, Director Air and Radiation Division United States Environmental Protection Agency Region 5 77 West Jackson Blvd. (R-19J) Chicago, IL 60604-3590

RE: Veolia ES Technical Solutions, L.L.C.

Sauget, IL 40 CFR Part 71

Title V Permit Renewal Application

Dear Mr. Czerniak,

Enclosed for your review is Veolia ES Technical Solutions, L.L.C. Sauget, IL facility's Title V permit renewal application prepared in accordance with 40 C.F.R. Part 71. This is a renewal application to the Title V permit that was issues on September 12, 2008 and expires on October 12, 2013.

If you have any questions on this submittal or would like to meet to discuss this application, please call Dennis Warchol or me at (618) 271-2804.

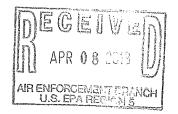
Sincerely,

Doug Harris

General Manager

Att.

cc: EPA File



APPLICATION FOR RENEWAL OF A MAJOR SOURCE OPERATING PERMIT

Veolia ES Technical Solutions #7 Mobile Avenue Sauget, Illinois 62201

APRIL 2013

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I. IDENTIFICATION INFORMATION

Veolia ES Technical Solutions (Veolia) owns and operates a Resource Conservation and Recovery Act (RCRA) treatment, storage and disposal facility in Sauget, Illinois. The primary facility activities include receipt of bulk waste or waste in containers, waste processing, waste storage, and waste incineration in one of three combustion units. The facility operates in accordance with a Title V permit to operate, Permit No. V-IL-12716300103-08-01 issued in accordance with 40 CFR Part 71 by USEPA Region 5 and the most recent Notification of Compliance (NOC) that contains operating limits for the combustors. In addition, Veolia operates in accordance with a hazardous waste Part B permit for treatment, storage, and disposal of hazardous waste.

A. Facility Information

Facility Name:

Veolia ES Technical Solutions (Veolia)

Plant ID:

1716300103

Address:

#7 Mobile Avenue

Sauget, IL 62201-1069

St. Clair County

Geographical:

Latitude 38.59447

Longitude -90.1854

Permit Contact:

Douglas Harris, General Manager

Please refer to Form GIS of the standard application forms for additional specific facility information. The forms are contained in Section VI of this document.

B. Source Description

The Veolia facility is comprised of emission units that have been grouped into twelve defined source emission points. There have been no physical changes to the existing emission units as described in the original Title V permit application. No emission units have been added since the original Title V permit became effective (October 12, 2008). The grouped sources, therefore, are provided below as they are listed in Permit #V-IL-1716300103-08-01, Section (1.0)(B).

Emission Unit	Description	Manufacturer /Model	Date of Construction	Emission Control Equipment
Cint				ļ
	Incineration Unit #2	Trade Waste	9/1986	Joy-Niro Spray Dryer
	(16 mmBtu/hr)	Incineration		Absorber (SDA-2),
Hazardous		TWI-2000,		Pulse Flo Fabric Filter
Waste		Series 2		(BH-2)
Combustors	Incineration Unit #3	Trade Waste	9/1986	Joy-Niro Spray Dryer
Comousions	(16 mmBtu/hr)	Incineration		Absorber (SDA-3),
		TWI-2000,		Pulse Flo Fabric Filter
		Series 2		(BH-3)

Emission Unit	Description	Manufacturer /Model	Date of Construction	Emission Control
Umt	T ' TI'			Equipment
	Incineration Unit #4	International	6/1988	Tempering Chamber, Activated Carbon Injection,
	(50 mmBtu/hr)	Waste Energy, PY*ROX		Spray Dryer Absorber
		PITROX		(SDA-4),
	3.6	·	1000	Fabric Filter (BH-4)
36.11	Material Processing		1988	None
Material	Areas #1 and #2			
Processing	(MP-1 and MP-2)		1000	
Areas	Lab Pack Repack		1988	None
	Area			
Drum Crusher	Crushing of RCRA-		1984	None
	empty containers			
Storage Tanks	Tanks: #2, #4, #6,	Modern Welding	1988	Activated Carbon
for Liquid	#8, #10, #20, #30,		2&4 replaced	Adsorbers on each
Wastes	#40, #50, #60, #300,	1	in- kind 4/2002	
	#302, #304, #306,		10&20 replaced	
	#308, #310, #312,		in-kind 6/2004 30 replaced in-	
	#314		kind 3/2009	
Storage Tank	Tanks #390	Modern Welding	1988	None
for #2 Fuel	Tanks π350	Modern Welding	1900	Trone
Oil				
Bulk Feed	Temporary storage		1988	Cyclone, Airtol Baghouse
Building	of bulk solid wastes		1,500	(BF Bldg-BH-1), Activated
(BF Bldg)	in pits prior to being			Carbon Adsorption Unit
(Dr Didg)	fed to Incineration			(BF Bldg-CA)
	Unit #4			(Br Blug-CA)
Gasoline	550-gallon tank with		1992 replaced	Noné
Storage Tank	submerged loading		in-kind 6/2012	None
Storage Tank	pipe		III-Kilid 0/2012	
Diesel Fuel	550-gallon tank		1992 replaced	None
Tank	330-gailon tank		in kind 6/2012	None
(Insignificant)			III KIIIU 0/2012	
Kerosene	550-gallon tank	, , , , , , , , , , , , , , , , , , , ,	1992 replaced	None
Tank	330-ganon tank		in kind 6/2012	None
(Insignificant)			III KIIII 0/2012	
Boiler #1	Natural gas-fired	Cleaver Brooks,	11/1995	None
DONCE #1	Boiler (10.6	250	11/1993	None
	mmBtu/hr)	250		
Emergency	#2 Fuel oil-fired		1988	None
Generators -2	(0.4 MMBtu/hr ea.)		1700	INORE
		,	NT/A	None
Fugitive	Pumps, Valves,		N/A	None
Emissions	Flanges, Open-			
	ended Lines,		- Colores	
	Compressors			

Descriptions of emission units and control equipment are provided on the standard application forms EUD-1 and EUD-2 found in Section VI of this document.

II. EMISSIONS INFORMATION

The emission sources at the Veolia facility have the potential to emit particulate matter (PM), volatile organic materials (VOM), sulfur dioxide (SO₂), nitrogen oxides (NO_X), carbon monoxide (CO), and organic/inorganic hazardous air pollutants (HAPs). Emissions are generated from the storage and handling of waste in material processing areas, breathing and working losses from storage tanks, combustion of waste, combustion of natural gas and organic liquid transfer in piping. The process flow, emission unit descriptions and emission control information has not changed from that provided in the original Title V permit application. The following sections provide brief summaries of the pertinent process and emission rate information.

A. Hazardous Waste Combustors

Incineration units #2 and #3 are identical fixed-hearth incinerators with a two-stage combustion process and maximum heat input capacity of 16 MMBtu/hr each. Ignition of waste material takes place in the primary (lower) combustion chamber at temperatures in excess of 1,700 degrees F. A secondary (upper) combustion chamber serves as an "after-burner" for process gases. The secondary combustion chamber temperature is maintained at a minimum temperature of 1,800 degrees F. Natural gas is used as auxiliary fuel in both chambers to maintain minimum combustion chamber temperatures. Each unit is equipped with a spray dryer adsorber and fabric filter air pollution control system. The fabric filter for unit #2 has four baghouse chambers while the fabric filter for unit #3 has three baghouse chambers.

Incineration unit #4 is a rotary kiln equipped with a secondary combustion chamber and a maximum heat input capacity of 50 MMBtu/hr. Ignition of waste material takes place in the primary kiln at temperatures in excess of 1,500 degrees F. The secondary combustion chamber temperature is maintained above 1,880 degrees F. Natural gas is used as auxiliary fuel to maintain minimum combustion temperatures. This unit is equipped with an air pollution control system that consists of a tempering chamber, activated carbon injection, a spray dryer adsorber, and a fabric filter.

The incineration units generate emissions of PM, SO₂, NO_X, CO, VOM and organic/inorganic HAPs.

B. Material Processing Areas

Material processing involves repackaging of containerized solid wastes into smaller, more manageable containers for incineration. Some solid wastes may be received containing free liquids that may be aqueous or organic. During material processing, free liquids are fixed with an inert absorbent to facilitate repackaging. Material processing occurs at MP-1, MP-2, and the Lab Pack Repack Facility in Building 2B. These operations emit fugitive emissions in an enclosed building. VOMs and organic HAPs are emitted to the atmosphere through building/area exhaust fans.

C. Drum Crusher

Drums received that are unsuitable for reuse are crushed at the Drum Crusher after being emptied. These empty drums may contain residual organic material. Crushed drums are transported off-site for disposal. Fugitive emissions of VOM and organic HAP are emitted to the atmosphere.

D. Storage Tank Units

Bulk liquid wastes are stored at Tank Farm #1 and Tank Farm #3. All bulk liquid waste tanks are vertical, fixed-roof tanks equipped with carbon canisters for control of emissions. In addition, No. 2 fuel oil, kerosene, and gasoline are also stored onsite in tanks. Emissions from the liquid bulk storage and handling units are VOMs and organic HAPs. Storage tank emission units and their capacities are listed below.

Tank ID	Location	Capacity
		(gallons)
Tank #2	Tank Farm #1	4,931
Tank #4	Tank Farm #1	4,931
Tank #6	Tank Farm #1	7,200
Tank #8	Tank Farm #1	5,280
Tank #10	Tank Farm #1	12,869
Tank #20	Tank Farm #1	12,869
Tank #30	Tank Farm #1	12,869
Tank #40	Tank Farm #1	12,869
Tank #50	Tank Farm #1	12,869
Tank #60	Tank Farm #1	12,869
Tank #300	Tank Farm #3	30,000
Tank #302	Tank Farm #3	30,000
Tank #304	Tank Farm #3	30,000
Tank #306	Tank Farm #3	30,000
Tank #308	Tank Farm #3	30,000
Tank #310	Tank Farm #3	30,000
Tank #312	Tank Farm #3	10,000
Tank #314	Tank Farm #3	10,000
Tank #390	Tank Farm #3	30,000
Kerosene	South of Parking Lot	550
No. 2 Fuel Oil	South of Parking Lot	550
Gasoline	South of Parking Lot	550
No. 2 Fuel Oil	Fire Pump House	550

E. Bulk Feed Building

Bulk solid wastes are stored in four pits in the Bulk Feed Building. Solids stored in these pits are incinerated in Unit 4. Bulk solid wastes are moved from the pits to Unit 4 by a clamshell through an enclosed gallery. The activities within the building generate emissions of PM, VOM and organic/inorganic HAPs. The building exhaust is equipped with an air pollution control system that consists of a cyclone, two baghouses, and a carbon adsorption system.

F. Gasoline Storage Tank

Gasoline is stored in a 550-gallon horizontal tank for utilization by company vehicles. The tank is equipped with a submerged loading pipe. VOM emissions are generated from the tank.

G. Boiler #1

There is 10.6 MMBtu/hr natural gas boiler located north of Tank Farm #1. The boiler is used to generate heat and steam for on-site uses. The natural gas combustion in the boiler generates emissions of PM, SO₂, NO_X, CO, VOM and organic/inorganic HAPs. There is no emission control devices associated with this unit.

H. Fugitive Organic Emissions

Fugitive VOM and organic HAP emissions are generated by leaking equipment like valves, flanges, and pumps. Equipment components are inspected and monitored to minimize fugitive emissions from these sources.

I. Emergency Generators

An emergency generator that combusts #2 fuel oil is used for emergency power/energy requirements. The generator rating is less than 112 kilowatts or 150.2 horsepower. The maximum hourly design rate is approximately 0.4 MMBtu/hr. The generator is only used in the case of a power outage or natural gas curtailment. Nonemergency operation is limited to maintenance and testing that is necessary to maintain the readiness of the unit.

A second emergency generator is used to operate the fire water pump in the event of an onsite fire. This generator also combusts #2 fuel oil and has a maximum hourly design rate of approximately 0.4 MMBtu/hr (< 112 kilowatt rating).

When operated, the #2 fuel oil combustion generates emissions of PM, SO₂, NO_X, CO, VOM and organic/inorganic HAPs. There are no emission control devices associated with these units.

J. Insignificant Emission Units

The list of insignificant emission units contained in the original Title V permit no. V-IL-1716300103-08-01 is provided below. No insignificant emission units have been added since the original Title V permit became effective (October 12, 2008).

2.5 mmBtu/hr Tioga portable boiler Ash handling Handling of spent dry scrubber solids Lime unloading and proportioning Gasoline storage tank Kerosene storage tank Diesel fuel storage tank
Use of absorbent material
General vehicle maintenance and servicing (assumed to include diesel fuel handling)
Laboratory
Piping and storage system for natural gas
Non-halogenated cold cleaning degreasers
Internal combustion engines of motor vehicles
Storage and handling of closed drums

K. Actual Emission Rates

		Ann	ual Emissions	(tons)	
Pollutant	2007	2008	2009	2010	2011
CO	1.93	1.95	1.67	1.41	1.21
NO _X	54.77	54.76	55.23	57.10	58.16
PM	1.04	1.04	1.07	1.10	1.12
SO ₂	0.598	0,496	0.520	0.490	0.49
VOM	1.60	1.70	1.74	1.62	1.51
HC1	2.69	3.56	2.09	2.03	1.89

III. APPLICABLE REQUIREMENTS

The existing Title V permit no. V-IL-1716300103-08-01 details the requirements that are applicable to Veolia. However, Veolia requests several changes to permit requirements based upon new regulations coming into effect, obsolete requirements that have been superseded and the collection of information during the permit term that affects the basis in the original application. The requested changes are described below.

A. 40 CFR 63 Subpart DDDDD National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

The facility operates a natural gas-fired boiler (Boiler #1) with a maximum heat input rate of 10.6 MMBtu/hour. On January 13, 2013, USEPA published the final standards for HAPs from the combustion of fuel in boilers and process heaters. Since the facility is a major source of HAPs, the requirements of 40 CFR 63 Subpart DDDDD (Boiler MACT) apply to Boiler #1. Veolia must provide initial notification in accordance with 40 CFR 63.9(b)(2) by May 31, 2013. The boiler must be in compliance by January 31, 2016.

There are no applicable numerical emissions limits, operating limits or performance testing requirements in the major source Boiler MACT for units designed to burn natural gas (Gas 1). As described in Table 3 to Subpart DDDDD, Boiler #1 must meet the work practice standards listed below.

- Performance of an annual tune-up addressing all regulated emissions. The tune-up shall include the following as described in 40 CFR 63.7540(10):
 - 1. Inspection of the burner, the flame pattern and the air-to-fuel ratio controls for operation in accordance with manufacturer's specifications and performance of adjustments as necessary.
 - 2. Optimization of total CO emissions in coordination with NO_X limitations.
 - 3. Measurement of CO concentrations and oxygen concentration in the boiler exhaust.
 - 4. Production of a written report documenting CO concentrations, corrective actions and the amount of fuel combusted during the year.
- Performance of a one-time energy assessment by a qualified energy assessor.
- Submission of a Notification of Compliance Status within 60 days of the initial tuneup. The applicable information listed in 40 CFR 63.7545(e)(1) through (8) must be provided in the Notification of Compliance Status.
- Submission of an Annual Compliance Report as described in 40 CFR 63.7550 by January 31st of each year.

The existing Permit #V-IL-1716300103-08-01 in Section 2.7 Unit-Specific Operating Requirement for Boilers requires that Boiler #1 CO concentrations not exceed 100 ppm on a dry basis corrected to 3% oxygen. In addition, the facility is required to conduct annual performance testing for CO and monitor monthly natural gas consumption. The

results from the last four years of performance testing of the boiler for CO concentrations are provided in the table below.

Date of Test	Highest CO Concentration (ppm)
June 25, 2009	0.06
June 17, 2010	< 0.01
June 9, 2011	< 0.01
June 8, 2012	0.13

The CO concentration of the boiler exhaust is very small and much less than the limit of 100 ppm. The design of the Cleaver Brooks boiler is conducive to minimizing CO emissions by achieving good combustion. Veolia requests that the requirement to conduct a performance test for CO in Section 2.7(D)(2) be removed and replaced with the requirement to conduct an annual tune-up of the boiler as contained in the Boiler MACT discussed above. The annual tune-up will include measurement and optimization of the CO concentration in the boiler exhaust which achieves the same result as the performance test – demonstrating compliance with the CO emission limitations of the permit.

B. Removal of Obsolete Requirements Related to Compliance Dates in 40 CFR 63 Subpart EEE National Emission Standards for Hazardous Air Pollutants From Hazardous Waste Combustors.

Veolia requests that permit conditions in which the compliance date has passed be removed from the Part 71 permit. Prior to October 14, 2008, the combustors were required to comply with different emission limitations than those that became applicable after that date and continue to be applicable. The facility demonstrated compliance with these limitations at the time; however, they are not relevant to facility requirements in the Part 71 permit going forward.

C. Adjustment of Basis for VOM Emission Calculations for Drum Crusher.

The Part 71 permit contains recordkeeping requirements for the drum crusher VOM emissions that must be calculated using the emission factor of 0.0914 lb VOM/drum crushed. This emission factor was calculated based on the conservative assumption that only methanol residue is in the containers to be crushed and that methanol is the only VOM released as the containers are crushed. This was conservative because methanol has a higher vapor pressure than most of the volatiles found in container residues, therefore, assuming the emissions were all methanol maximized the potential VOM emission rate. It was understood that this assumption significantly overestimated the VOM emissions from the drum crusher; however, the absence of data for the drum crusher operation required a conservative approach.

Veolia has collected data for the five years since the permit was issued including: the number of containers crushed, the type of volatile constituents likely to be in container residue and the amount of these volatile constituents processed on an annual basis. A

¹ CO concentration in ppm at 3% oxygen.

new VOM emission factor was calculated utilizing this data from actual operations. The container residue was characterized as containing the top organics at their overall concentrations in the waste received in 2007-2011. The remainder of the waste was represented as water and inert solids. This approach yielded a VOM emission factor of 0.0221 pounds VOM per drum crushed. With a maximum crushing rate of 40 drums per hour, the potential to emit for the drum crusher was calculated to be 0.8833 pounds VOM per hour and 3.87 tons VOM per year. The detailed calculations are provided in Appendix A.

D. Transfer of Combustors' Operating Permit Limits from Main Body of Permit to Appendix that Contains Most Recent Notification of Compliance Summary Table.

The existing Permit #V-IL-1716300103-08-01 in Section 2.1(C) Hazardous Waste Combustors, Units 2, 3 and 4 contains work practice standards and operational requirements. Condition 2 of this Section lists the operating parameter limits (OPLs) for the combustors that are used to demonstrate compliance with 40 CFR 63 Subpart EEE. Veolia requests that the table containing the specific OPL limits be removed from Condition 2. Instead, we propose that Condition 2 read as follows.

"2. The Permittee must operate Units 2, 3, and 4 under the operating parameter limits (OPLs) listed in the Current NOC a summary of which is provided in Attachment A to this permit document. Operation in accordance with the NOC limits is used to demonstrate compliance with Subpart EEE."

The table summarizing the OPLs from the current NOC would be moved to an attachment at the back of the permit. This eliminates the need to change tables within permit conditions and allows the NOC information to be updated easily.

E. 40 CFR 63 Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

Two emergency generators are located at the facility. They are stationary reciprocating internal combustion engines (RICE) with a site rating of less than 500 brake HP used only for emergency purposes that operate at a major source of HAP emissions. The emergency RICE must comply with the requirements of 40 CFR 63.6640(f) in order to be considered emergency stationary RICE. These requirements are listed below.

- (1) For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in nonemergency situations for 50 hours per year, as permitted in this section, is prohibited.
- (2) There is no time limit on the use of emergency stationary RICE in emergency situations.
- (3) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(4) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for nonemergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(4), as long as the power provided by the financial arrangement is limited to emergency power.

Each emergency RICE must comply with the following requirements by May 3, 2013 and at all times thereafter.

- 1. During normal operations:
- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;
- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- d. During startup: minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.
- 2. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- 3. Install a non-resettable hour meter if one is not already installed.
- 4. Maintain the following records:
 - Description of each malfunction of operation/monitoring equipment;
 - Description of all maintenance performed;
 - Description of actions taken during malfunction to minimize emissions;
 - Description of corrective actions;
 - List of maintenance conducted to demonstrate that RICE was operated and maintained in accordance with the maintenance plan/manufacturers recommendations;
 - The hours of operation as monitored by the non-resettable hour meter; and
 - Description of purpose of operation hours spent.
- 5. Sources must report any failure to perform the work practices on the required schedule.

F. 35 IAC 219.585 Gasoline Volatility Standards.

Effective January 28, 2013, the requirements of Illinois regulation 35 IAC 219.585 were repealed. Veolia requests that Section 2.6 Unit-Specific Operating Requirements for Gasoline Storage Tanks be revised to remove the items related to the repealed rule. These items are listed below.

Condition 2.6(A)(3)

The Permittee shall not sell, offer for sale, dispense, supply, offer for supply, or transport for use in Illinois gasoline whose Reid vapor pressure exceeds the applicable limitations set forth in 35 IAC 219.585 (b) and (c) below during the regulatory control periods, which shall be June 1 to September 15. [35 IAC 219.585(a)].

Condition 2.6(A)(4)

The Reid vapor pressure of gasoline, a measure of its volatility, shall not exceed 7.2 psi (49.68 kPa) during the regulatory control period in 1995 and each year thereafter. [35 IAC 219.585(b)].

Condition 2.6(A)(5)

The Reid vapor pressure of ethanol blend gasolines having at least nine percent (9%) but not more than ten percent (10%) ethyl alcohol by volume of the blended mixture, shall not exceed the limitations for gasoline set forth in subsection (b) of 35 IAC 219.585 by more than 1.0 pounds per square inch (psi)(6.9 kilopascals). 35 IAC 219.585(c)].

Condition 2.6(C)(1)

The Permittee shall have gasoline stored in the affected tank sampled and analyzed for Reid vapor pressure. Samples shall be conducted at least once per calendar year or within 15 days of a written request from EPA. [40 C.F.R. § 71.6(a)(3)(i)(B)].

Condition 2.6(C)(2)

The Permittee shall conduct all sampling (testing) of gasoline required by 35 IAC 219.585 in accordance with the procedures contained in 40 C.F.R. part 80, appendix D, "Sampling Procedures for Fuel Volatility."

Condition 2.6(C)(3)

The Permittee shall measure Reid vapor pressure of gasoline in accordance with the procedures contained in "Tests for Determining Reid Vapor Pressure (RVP) of Gasoline and Gasoline-Oxygenate Blends," as set forth in 40 C.F.R. part 80, appendix E.

Condition 2.6(C)(4)

The Permittee shall determine the ethanol content of ethanol blend gasolines using one of the approved testing methodologies specified in 40 C.F.R. part 80, appendix F.

Condition 2.6(C)(5)

Any alternate to the sampling or testing methods or procedures contained in 35 IAC 219.585 (d), (e), and (f) must be approved by the IEPA, which shall consider data comparing the performance of the proposed alternative to the performance of one or more approved test methods or procedures. Such data shall accompany any request for IEPA approval of any alternate test procedure. If the IEPA determines that such data demonstrates that the proposed alternative will achieve results equivalent to the approved test methods or procedures, IEPA shall approve the proposed alternative.

Condition 2.6(C)(6)

On an annual basis, the Permittee shall conduct an inspection of the gasoline storage tank to review its physical condition and ability to comply with 35 IAC 219.585. [40 C.F.R. \S 71.6(a)(i)(3)(B)].

Condition 2.6(D)(3)

The Permittee shall maintain records for each shipment of material loaded into the gasoline storage tank that include copies of the invoice, bill of lading or other documentation from the supplier that provides the type of material, the amount of shipment, date of delivery, and the Reid vapor pressure (psi) of the gasoline. The Permittee shall keep these records for three years. [40 C.F.R. § 71.6(a)(3)(i)(B)].

Condition 2.6(D)(4)

The Permittee must maintain records of results of any testing samples. [40 C.F.R. \S 71.6(a)(3)(i)(B)].

IV. DEMONSTRATION OF COMPLIANCE

Compliance demonstration methods, monitoring, recordkeeping and reporting for the sources operating at Veolia are as required in Permit #V-IL-1716300103-08-01. An Annual Compliance Certification is submitted each year for all applicable requirements as they are described in the Part 71 permit.

V. COMPLIANCE STATUS AND CERTIFICATION

Veolia is in compliance with the permit and regulatory requirements as they apply to the emissions sources operating at the facility. The statement of completeness and certification of compliance by the facility's responsible official is provided on the CTAC Form 5900-2 in Section VI of this document.

VI. STANDARD APPLICATION FORMS

This section contains the completed applicable standard permit application forms as published by the United States Environmental Protection Agency.



OMB No. 2060-0336, Approval Expires 06/30/2015

Federal Operating Permit Program (40 CFR Part 71)

GENERAL INFORMATION AND SUMMARY (GIS)

GENERAL INFORMATION AND SUMMART (GIS)
A. Mailing Address and Contact Information
Facility name Veolia ES Technical Solutions
Mailing address: Street or P.O. Box#7 Mobile Avenue
City Sauget State IL ZIP 62201 - 1069
Contact person:Douglas HarrisTitleGeneral Manager
Telephone (<u>618</u>) <u>271 - 2804</u> Ext
Facsimile (<u>618</u>) <u>271</u> - <u>2128</u>
B. Facility Location
Temporary source?Yes _X_No
City Sauget State IL County St. Clair EPA Region 5
Is the facility located within:
Indian lands?YES _X_NO OCS waters?YES _X_NO
Non-attainment area? X YES NO If yes, for what air pollutants? Ozone, PM2.5
Within 50 miles of affected State? X YES NO If yes, What State(s)? MO
C. Owner
Name Veolia ES Technical Solutions Street/P.O. Box 700 East Butterfield Road, Suite 201
City Lombard State IL ZIP 60148 -
Telephone (<u>630</u>) <u>218</u> - <u>1756</u> Ext
D. Operator
Name <u>Veolia ES Technical Solutions</u> Street/P.O. Box <u>#7 Mobile Avenue</u>
City Sauget State IL ZIP 62201 - 1069
Telephone (<u>618</u>) <u>271</u> - <u>2804</u> Ext

E. Application Type			
Mark only one permit application type and answer the s marked.	supplementary question appropriate for the type		
Initial Permit X Renewal Significant M	lod Minor Permit Mod(MPM)		
Group Processing, MPM Administrativ	/e Amendment		
For initial permits, when did operations commence?			
For permit renewal, what is the expiration date of current	nt permit? 10 / 12 / 2013		
F. Applicable Requirement Summary			
Mark all types of applicable requirements that apply.			
<u>X</u> SIP FIP/TIP	PSDNon-attainment NSR		
X Minor source NSR Section 111	Phase I acid rainPhase II acid rain		
Stratospheric ozone OCS regulations			
Sec. 112(g) MACT Early reduction of HAI	P Sec 112(j) MACT RMP [Sec.112(r)]		
Tank Vessel requirements, sec. 183(f)) S	Section 129 Standards/Requirement		
Consumer / comm products, § 183(e)	NAAQS, increments or visibility (temp. sources)		
Has a risk management plan been registered?YES	SNO Regulatory agency		
Phase II acid rain application submitted?YESX	Phase II acid rain application submitted?YESX_NOIf yes, Permitting authority		
G. Source-Wide PTE Restrictions and Generic Applicate			
Cite and describe any emissions-limiting requirements and/	or facility-wide "generic" applicable requirements.		
40 CFR 71.6(a)(3)(ii) General Part 71 Recordkeeping.			
40 CFR 71.6(a)(3)(iii) General Part 71 Reporting.	1		
40 CFR 71.6(a)(3)(I) Performance Testing Facilities Provided			
35 IAC 212.301 Fugitive particulate emissions beyond the prop			
35 IAC 237.102 Open burning is prohibited except as provided	v • • · · ·		
35 IAC 212.123(a) Opacity is limited to less than 30% from an			
40 CFR Part 82 Standards for recycling and emissions reduction			
35 IAC 244 Subpart C Maintain onsite a written Episode Action			
40 CFR 61 Subpart FF Calculation of total annual benzene qua	annity and any applicable requirements as indicated.		

H. Process Description

List processes, products, and SIC codes for the facility.

Products	SIC
Not applicable	4953

I. Emission Unit Identification

Assign an emissions unit ID and describe each emissions unit at the facility. Control equipment and/or alternative operating scenarios associated with emissions units should by listed on a separate line. Applicants may exclude from this list any insignificant emissions units or activities.

Emissions Unit ID	Description of Unit
Incineration Unit #2	Fixed Hearth Incinerator with Maximum Heat Capacity of 16 mmBtu/hr.
SDA-2	Spray Dryer Absorber air pollution control device for Unit #2.
BH-2	Fabric Filter air pollution control device for Unit #2.
Incineration Unit #3	Fixed Hearth Incinerator with Maximum Heat Capacity of 16 mmBtu/hr.
SDA-3	Spray Dryer Absorber air pollution control device for Unit #3.
BH-3	Fabric Filter air pollution control device for Unit #3.
Incineration Unit #4	Rotary Kiln Incinerator (transportable) with Maximum Heat Capacity of 50 mmBtu/hr.
	Tempering Chamber for Unit #4.
	Activated Carbon Injection in Unit #4.
SDA-4	Spray Dryer Absorber air pollution control device for Unit #4.
BH-4	Fabric Filter air pollution control device for Unit #4.
Material Processing Area #1 (MP-1)	Waste Processing Areas #1 for processing/packaging of waste and repackaging of containerized waste.
Material Processing Area #2 (MP-2)	Waste Processing Areas #2 for processing/packaging of waste and repackaging of containerized waste.
	Activated Carbon Absorption pollution control device for MP-2.
Lab Pack Repack Area	Waste Processing processing/packaging and repackaging of lab pack wastes.
Drum Crusher	Empty drums are crushed in a three-sided partial enclosure.
Storage Tanks for Liquid Wastes and #2 Fuel Oil	Tanks: #2 (4,391 gals.), #4 (4,931 gals.), #6 (7,200 gals.), #8 (5,820 gals.), #10 (12,869 gals.), #20 (12,869 gals.), #30 (12,869 gals.), #40 (12,869 gals.), #50 (12,869 gals.), #60 (12,869 gals.), #300 (19,850 gals.), #302 (30,000 gals.), #304 (30,000 gals.), #306 (30,000 gals.), #308 (30,000 gals.), #310 (30,000 gals.), #312 (10,000 gals.), #314 (10,000 gals.).
	Activated Carbon Absorption pollution control devices for Storage Tank Vents.
Storage Tank for #2 Fuel Oil	<u>Tank</u> #390 (30,000 gals.).

4

Bulk Feed Building	Temporary storage of bulk solid wastes before being fed to Incineration Unit #4.
BF Bldg - CA	Activated Carbon Absorption System pollution control devices for Bulk Feed Building.
BF Bldg – BH-1	Baghouse with cyclone precleaner air pollution control devices for Bulk Feed Building.
Boiler #1	Natural gas-fired Boiler with Maximum Heat Capacity of 10.6 mmBtu/hr used for generating steam for the facility.
EGEN1, EGEN2	#2 Fuel oil-fired Emergency Generators with Maximum Heat Capacity of 0.40 mmBtu/hr.
Fugitive Emissions	Pumps, valves, open-end lines and compressors.

J. Facility Emissions Summary

Enter potential to emit (PTE) for the facility as a whole for each air pollutant listed below. Enter the name of the single HAP emitted in the greatest amount and its PTE. For all pollutants stipulations to major source status may be indicated by entering "major" in the space for PTE. Indicate the total actual emissions for fee purposes for the facility in the space provided. Applications for permit modifications need not include actual emissions information.

5

NOx <u>74.11</u> tons/yr VOC <u>23.54</u> tons/yr SO2 <u>67.19</u> tons/yr
PM-10 <u>14.87</u> tons/yr CO <u>30.85</u> tons/yr Lead <u>0.1137</u> tons/yr
Total HAP 32.62 tons/yr
Single HAP emitted in the greatest amount <u>Benzene</u> PTE <u>0.38</u> tons/yr
Total of regulated pollutants (for fee calculation), Sec. F, line 5 of form FEE N/A tons/yr
K. Existing Federally-Enforceable Permits
Permit number(s) V-IL-1716300103-08-01 Permit type Title V Permitting authority EPA
Permit number(s) Permit type Permitting authority
L. Emission Unit(s) Covered by General Permits
Emission unit(s) subject to general permit <u>Not applicable</u>
Check one: Application made Coverage granted
General permit identifier Expiration Date/
M. Cross-referenced Information
Does this application cross-reference information? X YES NO (If yes, see instructions)



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INSIGNIFICANT EMISSIONS (IE)

On this page list each insignificant activity or emission unit. In the "number" column, indicate the number of units in this category. Descriptions should be brief but unique. Indicate which emissions criterion of

Number	basis for the exemption. Description of Activities or Emissions Units	RAP,	HAP
		except	
		HAP ,	
	2.5 mmBtu/hr Tioga portable boiler	√	
1	Ash Handling	√	
1	Handling of Spent Dry Scrubber Solids	✓	
1	Lime Unloading and Proportioning	√	
1	Gasoline Storage Tank	✓	
1	Diesel Fuel Storage Tank	✓	
1	Kerosene Storage Tank	✓	
1	Use of Absorbent Material	√	
1	General Vehicle Maintenance and	√	
	Servicing (assumed to include diesel		
	fuel handling)		
1	Laboratory	√	
1	Piping and Storage System for Natural	✓	
	Gas		
1	Non-halogenated Cold Cleaning	✓	
	Degreasers		
1	Internal Combustion Engines in Motor	✓	
	Vehicles		
N/A	Storage and Handling of Closed Drums	✓	
-			
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OMB No. 2060-0336, Approval Expires 06/30/2015

Federal Operating Permit Program (40 CFR Part 71)

EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)
A. General Information
Emissions unit ID <u>Incineration Unit #2</u> . Description <u>Fixed Hearth Incinerator (16 mmBtu/hr)</u> .
SIC Code (4-digit) <u>4953</u> . SCC Code <u>50300101</u> .
B. Emissions Unit Description
Primary use <u>Hazardous Waste Incineration</u> . Temporary Source <u>X</u> No
Manufacturer_Trade Waste Incineration, Inc Model No. TWI-2000, Series 2 .
Serial Number <u>NA</u> Installation Date <u>9</u> / <u>1986</u>
Boiler Type: Industrial boiler Process burner Electric utility boiler
X Other (describe) <u>Incinerator</u>
Boiler horsepower rating NA Boiler steam flow (lb/hr NA
Type of Fuel-Burning Equipment (coal burning only):
Hand firedSpreader stokerUnderfeed stokerOverfeed stoker
Traveling grateShaking gratePulverized, wet bedPulverized, dry bed
Actual Heat InputMM BTU/hr Max. Design Heat InputMM BTU/hr

2

Primary fuel type(s) Natural					
Describe each fuel you expecte Fuel Type	d to use during the te Max. Sulfur Content (%)	Ma	the permit ax. Ash tent (%)		BTU Value (cf, gal., or lb.)
Natural Gas	NA	NA		1050 B	TU/cf
). Fuel Usage Rates					
Fuel Type	Annual Actu Usage	al	Maxim Hourly		um Usage Annual
Natural Gas	52 mmcft		0.0152		133 mmcft
E. Associated Air Pollution Contro	ol Equipment				
Emissions unit ID_SDA-2		Dryer	Absorber		
Air pollutant(s) Controlled HCI	and SO2 Manut	facture	er	Joy-Niro	
Model No. Custom	Serial No	o			
Installation date <u>9</u> / <u>/ 19</u>	086 Control efficie	ency ('	%) <u>99</u>	%	· •
Title in a constituent in a most had	Derformance Test				
Efficiency estimation method	Performance rest				
E. Associated Air Pollution Contro	ol Equipment				
Emissions unit ID <u>BH-2</u>	Device type Ba	ghous	se r		
Air pollutant(s) ControlledPM/	PM10/Lead . Manut	facture	er <u> </u>	Pulse Flo	<u>) </u>

EUD-1

3

Efficiency estimation method _	Performance Test	
		-

F. Ambient Impact Assessment Not Applicable.

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft)	Inside stack diameter (ft)
Stack temp(°F)	Design stack flow rate (ACFM)
Actual stack flow rate (ACFM)	Velocity (ft/sec)



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Federal Operating Permit Program (40 CFR Part 71)

EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)
A. General Information
Emissions unit ID <u>Incineration Unit #3</u> . Description <u>Fixed Hearth Incinerator (16 mmBtu/hr)</u> . SIC Code (4-digit) <u>4953</u> . SCC Code <u>50300101</u> .
B. Emissions Unit Description
Primary use <u>Hazardous Waste Incineration</u> . Temporary Source <u>X</u> No
Manufacturer Trade Waste Incineration, Inc Model No. TWI-2000, Series 2
Serial Number NA Installation Date 9 / / 1986
Boiler Type: Industrial boiler Process burner Electric utility boiler
X Other (describe) <u>Incinerator</u>
Boiler horsepower rating NA Boiler steam flow (lb/hr NA
Type of Fuel-Burning Equipment (coal burning only):
Hand firedSpreader stokerUnderfeed stokerOverfeed stoker
Traveling grateShaking gratePulverized, wet bed Pulverized, dry bed
Actual Heat InputMM BTU/hr Max. Design Heat InputMM BTU/hr

		ž.		
C. Fuel Data				
Primary fuel type(s) Natural C	<u>Gas</u> Stand	by fuel type	:(s)	
Describe each fuel you expected	to use during the te	erm of the p	ermit.	
Fuel Type	Max. Sulfur Content (%)	Max. As Content (l l	BTU Value (cf, gal., or lb.)
Natural Gas	NA	NA	1050	BTU/cf
D. Fuel Usage Rates				
Fuel Type	Annual Actu Usage	1	Maxir Hourly	mum Usage Annual
Natural Gas	64 mmcft	0.00	95	83 mmcft
E. Associated Air Pollution Control	Equipment			
Emissions unit ID <u>SDA-3</u> . D	evice type <u>Spray</u>	Dryer Abso	rber	•
Air pollutant(s) Controlled HCl ar	nd SO2 . Manu	facturer	Joy-Nire	0
Model No. Custom	Serial No). <u> </u>		
Installation date <u>9</u> //1980	6 Control efficie	∍ncy (%)	99%	· · · · · · · · · · · · · · · · · · ·
Efficiency estimation methodI	Performance Test		· .	
E. Associated Air Pollution Control	Equipment			
Emissions unit ID <u>BH-3</u> . D	•			
Air pollutant(s) Controlled PM/PN	<u>VI10/Lead</u> . Manuf	acturer	Pulse F	lo .
Model No. <u>Custom</u>	Serial No). <u> </u>		
Installation date 9 / / 1986	6 Control efficie	encv (%)	< 0.08 c	ırains .

EUD-1	
`	
	Efficiency estimation method Performance Test
•	
	F. Ambient Impact Assessment Not Applicable. This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
	Stack height (ft) Inside stack diameter (ft)
	Stack temp(°F) Design stack flow rate (ACFM)
	Actual stack flow rate (ACFM) Velocity (ft/sec)



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Federal Operating Permit Program (40 CFR Part 71)

EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)
A. General Information
Emissions unit ID <u>Incineration Unit #4</u> . Description <u>Rotary Kiln</u> (50 mmBtu/hr).
SIC Code (4-digit) <u>4953</u> . SCC Code <u>50300101</u> .
B. Emissions Unit Description
Primary use <u>Hazardous Waste Incineration</u> . Temporary Source <u>X</u> No
Manufacturer International Waste Energy . Model No. PY*ROX
Serial Number NA Installation Date 9 / 1986
Boiler Type: Industrial boiler Process burner Electric utility boiler
X Other (describe) Incinerator
Boiler horsepower rating NA Boiler steam flow (lb/hr NA
Type of Fuel-Burning Equipment (coal burning only):
Hand firedSpreader stokerUnderfeed stokerOverfeed stoker
Traveling grateShaking gratePulverized, wet bed Pulverized, dry bed
Actual Heat InputMM BTU/hr Max. Design Heat InputMM BTU/hr

EUD-	1
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2	
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Fuel Data Primary fuel type(s) Natural Gas	Stand	ov fuo	l typo(c)		
Describe each fuel you expected to u			<u> </u>	• .	DTILL
Fuel Type	Max. Sulfur Content (%)		ıx. Ash tent (%)		BTU Value (cf, gal., or lb.)
latural Gas	. NA	NA		1050 B	TU/cf
			·		
. Fuel Usage Rates					
Fuel Type	Annual Actu Usage	al	, ,		um Usage
latural Gas	137 mmcft		Hourly 0.0152	/	Annual 133.5 mmcft
. Associated Air Pollution Control Equ	ipment				·
Emissions unit ID_SDA-4 Device	ce type <u>Sprav</u>	Dryer	Absorber		Matter Commission Comm
Air pollutant(s) Controlled HCl and S	<u>O2</u> Manuf	acture	er		
Model No. Custom	Serial No),			
Installation date <u>6</u> // <u>1988</u> _	Control efficie	ency (^e	%) 99	%	· ·
			,		
Efficiency estimation method Perf	ormance Test				
. Associated Air Pollution Control Equ	ıipment				
Emissions unit ID <u>BH-4</u> . Devid					
Air pollutant(s) Controlled PM/PM10	<u>/Lead</u> . Manuf	acture	er <u>V</u>	<u>Vheelab</u>	rator .
Model No. <u>Custom</u>). <u></u>			

EUD-1

3

Efficiency estimation method	Performance Test	

F. Ambient Impact Assessment Not Applicable.

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft)	Inside stack diameter (ft)
Stack temp(°F)	Design stack flow rate (ACFM)
Actual stack flow rate (ACFM)	Velocity (ft/sec)



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Federal Operating Permit Program (40 CFR Part 71)

EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information
Emissions unit ID <u>EGEN1</u> Description <u>Emergency Generator ≤ 112 kW (150.2 HP)</u>
SIC Code (4-digit) SCC Code
B. Emissions Unit Description
Primary use <u>Emergency Power for Plant Operations</u> Temporary Source <u>Yes X</u> No
Manufacturer Model No
Serial Number Installation Date//
Boiler Type: Industrial boiler Process burner Electric utility boiler
Other (describe)
Boiler horsepower rating Boiler steam flow (lb/hr)
Type of Fuel-Burning Equipment (coal burning only):
Hand firedSpreader stokerUnderfeed stokerOverfeed stoker
Traveling grateShaking gratePulverized, wet bedPulverized, dry bed
Actual Heat InputMM BTU/hr Max. Design Heat InputMM BTU/hr

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0.5.10.4					
C. Fuel Data	Ot a diame	-11	. (-)		1
Primary fuel type(s) Diesel Fuel	Standby fu	ei typ	e(s)		
Describe each fuel you expected to	use during the te	rm of	the permit	•	
Fuel Type	Max. Sulfur Content (%)	1	ax. Ash tent (%)		BTU Value (cf, gal., or lb.)
Diesel Fuel	0.05			0.0137	MMBtu/gal
D. Fuel Usage Rates					
Fuel Type	Annual Actual		Maximum Usage		
	Usage	Hourly		•	Annual
Diesel Fuel			28 gallons	}	13,960 gallons
E. Associated Air Pollution Control E	quipment				
Emissions unit ID <u>None</u> D	Device type				
Air pollutant(s) Controlled	Mar	nufact	urer		

Model No._____ Serial No.____

Installation date ____/ ___ Control efficiency (%) _____

Efficiency estimation method

\Box	Form	5900-80

EUD-1

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) NA	Inside stack diameter (ft)
Stack temp(°F)	Design stack flow rate (ACFM)
Actual stack flow rate (ACFM)	Velocity (ft/sec)



Federal Operating Permit Program (40 CFR Part 71)

EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information						
F - 1						
Emissions unit ID <u>EGEN2</u> Description <u>Emergency Generator ≤ 112 kW (150.2 HP)</u>						
SIC Code (4-digit) SCC Code						
B. Emissions Unit Description						
Primary use <u>Emergency Fire Water Pump</u> Temporary Source <u>Yes X</u> No						
Manufacturer Model No						
Serial Number Installation Date//						
Boiler Type: Industrial boiler Process burner Electric utility boiler						
Other (describe)						
Boiler horsepower rating Boiler steam flow (lb/hr)						
Type of Fuel-Burning Equipment (coal burning only):						
Hand firedSpreader stokerUnderfeed stokerOverfeed stoker						
Traveling grateShaking gratePulverized, wet bed Pulverized, dry bed						
Actual Heat InputMM BTU/hr Max. Design Heat InputMM BTU/hr						

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C.	Ьu	el	D	ata
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Primary fuel type(s) Diesel Fuel S	Standby fuel type(s)
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Describe each fuel you expected to use during the term of the permit.

Fuel Type	Max. Sulfur Content (%)	Max. Ash Content (%)	BTU Value (cf, gal., or lb.)	
Diesel Fuel	0.05		0.0137 MMBtu/gal	

D. Fuel Usage Rates

Fuel Type	Annual Actual	Maximum Usage		
	Usage	Hourly	Annual	
Diesel Fuel		28 gallons	13,960 gallons	
			·	

E.	Associated Air Pollution Contro	ol Equipment	
	Emissions unit ID None	Device type	
	Air pollutant(s) Controlled	Manufacturer	
	Model No	Serial No	
	Installation date//	Control efficiency (%)	
	Efficiency estimation method		

EUD-1

F. Ambient Impact Assessment

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

Stack height (ft) <u>NA</u>	Inside stack diameter (ft)
Stack temp(°F)	Design stack flow rate (ACFM)
Actual stack flow rate (ACFM)	Velocity (ft/sec)



Federal Operating Permit Program (40 CFR Part 71)

E	MISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
Α.	General Information
	Emissions unit ID Bulk Feed Bldg (BF Bldg) . Description Temporary Storage in pits prior to feeding into Incineration Unit #4
	SIC Code (4-digit) 4953 . SCC Code 50300830
В.	Emissions Unit Description
	Equipment typeNATemporary SourceYes _X_No
	ManufacturerNA Model NoNA
	Serial Number Installation Date /1988
	Articles being coated or degreased
	Application method
	Overspray (surface coating) (%) Drying method
	No. of dryers Tank capacity (degreasers) (gal)
C.	Associated Air Pollution Control Equipment
	Emissions unit ID_BF Bldg. BH-1 . Device type Baghouse
	Serial Number Installation Date 11 // 1988
	Control efficiency (%) Capture efficiency (%)
Α	ir pollutant(s) controlled PM/PM10 . Efficiency estimation method
<u>C</u> .	Associated Air Pollution Control Equipment
	Emissions unit ID_BF Bldg. CA . Device type <u>Activated Carbon Adsorption System</u> . Manufacturer Model No
	Serial Number Installation Date 11 //1988
	Control efficiency (%) Capture efficiency (%)
A	ir pollutant(s) controlled <u>VOM</u> . Efficiency estimation method
D	Ambient Impact Assessment

EPA Form 5900-81

EUD-2

This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).				
Stack height (ft) Inside stack diameter (ft)				
Stack temp (F) <u>ambient</u> . Design stack flow rate (ACFM) <u>5,000</u> .				
Actual stack flow rate (ACFM) 2,500 . Velocity (ft/sec)				

E. VOC-containing Substance Data

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						



Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID <u>Drum Crusher</u> . Description <u>Crusher</u> .
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30180001</u> .
B. Emissions Unit Description
Equipment type <u>Crusher with hopper</u> . Temporary Source <u>Y</u> es <u>X</u> No
ManufacturerCustom Built Model NoNA
Serial Number Installation Date 5 // 1988_
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_None Device type
Serial Number Installation Date//
Control efficiency (%) Capture efficiency (%)
Air pollutant(s) controlled Efficiency estimation method
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) Inside stack diameter (ft)
Stack temp (F) Design stack flow rate (ACFM)
Actual stack flow rate (ACFM) Velocity (ft/sec)

EUD-2

E. VOC-containing Substance Data

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
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	. ,					
` '		·				
		·				
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID <u>Lab Pack Repack Area</u> . Description <u>Repacking of Lab Pack Waste</u> .
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30180001</u> .
B. Emissions Unit Description
Equipment type Opening containers/ transfer to containers. Temporary SourceYes _X_No
Manufacturer <u>NA</u> Model No. <u>NA</u> .
Serial Number <u>NA</u> Installation Date / / <u>1988</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_None Device type Manufacturer Model No
Serial No Installation date//
Control efficiency (%) Capture efficiency (%)
Air pollutant(s) controlled Efficiency estimation method
D. Ambient Impact Assessment Not Applicable
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) Inside stack diameter (ft)
Stack temp (F) Design stack flow rate (ACFM)
Actual stack flow rate (ACFM) Velocity (ft/sec)

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
					. *	
				·		
					·	



Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)

E	EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A.	General Information
	Emissions unit ID Material Processing Area #1 (MP-1). Description Processing/Repacking Waste.
	SIC Code (4-digit) 4953 . SCC Code 50300810 .
В.	Emissions Unit Description
	Equipment type Opening containers/ transfer to containers. Temporary SourceYes _X_No
	Manufacturer NA . Model No. NA .
	Serial Number NA Installation Date / / 1988
ĺ	
	Articles being coated or degreased
	Application method
	Overspray (surface coating) (%) Drying method
	No. of dryers Tank capacity (degreasers) (gal)
C.	Associated Air Pollution Control Equipment
	Emissions unit ID_None Device type
	Serial No Installation date//
	Control efficiency (%) Capture efficiency (%)
	Air pollutant(s) controlled Efficiency estimation method
D.	Ambient Impact Assessment Not Applicable
	This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
	Stack height (ft) Inside stack diameter (ft)
	Stack temp (F) Design stack flow rate (ACFM)
	Actual stack flow rate (ACFM) Velocity (ft/sec)
1	

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
						3



Federal Operating Permit Program (40 CFR Part 71)

	MISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
Α.	General Information
	Emissions unit ID <u>Material Processing Area #2 (MP-2).</u> Description <u>Processing/Repacking Waste.</u>
	SIC Code (4-digit) <u>4953</u> . SCC Code <u>50300810</u> .
В.	Emissions Unit Description
	Equipment type Opening containers/ transfer to containers. Temporary SourceYes _X_No
	Manufacturer NA Model No. NA .
	Serial Number NA Installation Date// 1988
	Articles being coated or degreased
	Application method
	Overspray (surface coating) (%) Drying method
	No. of dryers Tank capacity (degreasers) (gal)
C.	Associated Air Pollution Control Equipment
	Emissions unit ID_None Device type Manufacturer Model No
	Serial No Installation date//
	Control efficiency (%) Capture efficiency (%)
	Air pollutant(s) controlled Efficiency estimation method
1	
D.	Ambient Impact Assessment Not Applicable
D.	Ambient Impact Assessment Not Applicable This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
D.	This information must be completed by temporary sources or when ambient impact assessment is an
D.	This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA			·.			8
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Federal Operating Permit Program (40 CFR Part 71)

EMISSION UNIT DESCRIPTION FOR FUEL COMBUSTION SOURCES (EUD-1)

A. General Information
Emissions unit ID Boiler #1 . Description Boiler for Steam Generation . SIC Code (4-digit) 4953 . SCC Code 10300602 .
B. Emissions Unit Description
Primary use <u>Steam Generation/Fuel Combustion</u> . Temporary Source <u>Yes X</u> No
Manufacturer Cleaver Brooks . Model No. 250 . Serial Number NA . Installation Date 11 / 1995
Boiler Type: _X_Industrial boiler Process burner Electric utility boiler Other (describe)
Boiler horsepower rating Boiler steam flow (lb/hr
Type of Fuel-Burning Equipment (coal burning only):
Hand firedSpreader stokerUnderfeed stokerOverfeed stoker
Traveling grateShaking gratePulverized, wet bedPulverized, dry bed
Actual Heat Input 10.6 MM BTU/hr Max. Design Heat Input 10.6 MM BTU/hr

EUD-1

Primary fuel type(s) Natu	ural Gas Stand	dby fu	el type(s)_		
Describe each fuel you expe	cted to use during the to	erm of	the permi	t.	
Fuel Type	Max. Sulfur Content (%)	1	ax. Ash Itent (%)		BTU Value (cf, gal., or lb.)
Natural Gas	NA	NA		1050 B	ΓU/cf
D. Fuel Usage Rates					
Fuel Type	Annual Actu Usage	ıal	Hourl	Maximum Usage Hourly Anni	
Natural Gas	13 mmcft		0.0095		83.43 mmcft
E. Associated Air Pollution Con	trol Equipment				
Emissions unit ID None	_ Device type		·		
Air pollutant(s) Controlled	Manu	factur	er	,	
Model No.					
Model No.	Serial No		-Sn		
Installation date//					
	Control efficiend	cy (%)		•	
Installation date//	Control efficiend	cy (%) <u>.</u>		<u>.</u>	
Installation date//	Control efficienc	cy (%)			
Installation date// Efficiency estimation method E. Associated Air Pollution Con	Control efficiend	cy (%)			
Installation date//_ Efficiency estimation method E. Associated Air Pollution Con Emissions unit ID	Control efficience trol Equipment Device type Manu	cy (%)	er		
E. Associated Air Pollution Con Emissions unit ID Air pollutant(s) Controlled	Control efficience Itrol Equipment Device type Manu Serial No.	cy (%)	er		

)-1		3 .		
	Efficiency estimation method			
F.	. Ambient Impact Assessment Not	: Applicable.		
Thi	nis information must be completed by to	temporary sources or when		assessment is a
Thi	nis information must be completed by to oplicable requirement for this emissions	temporary sources or when s unit (this is not common).		
Thi	nis information must be completed by to	temporary sources or when s unit (this is not common).		
Thi	nis information must be completed by to oplicable requirement for this emissions	temporary sources or when s unit (this is not common)Inside stack diameter (f	t)	



Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID_Tank #2 Description_4.931 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary SourceYes <u>X</u> No
Manufacturer <u>Modern Welding</u> . Model No. <u>NA</u> .
Serial Number <u>S-4869-TK2</u> Installation Date <u>4</u> / <u>2002</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #2 Device type Activated Carbon Canister Manufacturer TIGG Corporation Model No N-100XP or equivalent
Serial Number <u>NA</u> . Installation Date <u>4</u> / <u>2002</u>
Control efficiency (%) 95-98% Capture efficiency (%) 100%
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method <u>Mfg. Info.</u>
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft) 0.33
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100
Actual stack flow rate (ACFM) <u>< 100</u> . Velocity (ft/sec)

EUD-2

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Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA			·			
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID_Tank #4 Description 4.931 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary SourceYes <u>X</u> No
Manufacturer <u>Modern Welding</u> Model No. <u>NA</u>
Serial Number <u>S-4869-TK4</u> . Installation Date <u>4</u> // <u>2002</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_ <u>CC #4</u> . Device type <u>Activated Carbon Canister</u> . Manufacturer <u>TIGG Corporation</u> . Model No. <u>N-100XP or equivalent</u> .
Serial Number <u>NA</u> . Installation Date <u>4</u> //_2002
Control efficiency (%) <u>95-98%</u> . Capture efficiency (%) <u>100%</u> .
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method Mfg. Info.
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft) 0.33
Stack temp (F) 62.4 . Design stack flow rate (ACFM) 100 .
Actual stack flow rate (ACFM) <u>< 100</u> . Velocity (ft/sec)

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						

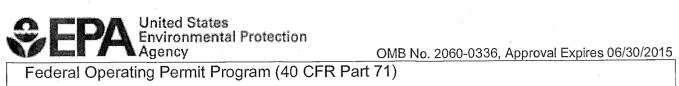


Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID Tank #6 . Description 7,200 gallon capacity .
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary SourceYes <u>X</u> No
Manufacturer Modern Welding . Model No. NA
Serial Number S-4869-TK6 Installation Date 5 / / 1988
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC#6 . Device type <u>Activated Carbon Canister</u> . Manufacturer <u>TIGG Corporation</u> . Model No. <u>N-100XP or equivalent</u> .
Serial Number NA Installation Date 5 // 1988
Control efficiency (%) 95-98% . Capture efficiency (%) 100% .
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method Mfg. Info
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft) 0.33
Stack temp (F) 62.4 . Design stack flow rate (ACFM) 100 . Actual stack flow rate (ACFM) < 100 . Velocity (ft/sec)

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
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EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID_Tank #8 Description_5,280 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary SourceYes <u>X</u> No
Manufacturer <u>Modern Welding</u> Model No. <u>NA</u>
Serial Number <u>S-4869-TK8</u> Installation Date <u>5</u> / <u>1988</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #8 Device type Activated Carbon Canister Manufacturer TIGG Corporation Model No N-100XP or equivalent
Serial Number <u>NA</u> Installation Date <u>5</u> / <u>1988</u>
Control efficiency (%) 95-98% Capture efficiency (%) 100%
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method Mfg. Info
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft) 0.33
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100
Actual stack flow rate (ACFM) < 100 Velocity (ft/sec)

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						



Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID Tank #10 Description 12.869 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary Source <u>Y</u> es <u>X</u> No
Manufacturer Modern Welding . Model No. NA
Serial Number <u>S-4869-TK10</u> Installation Date <u>6</u> / <u>2004</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #10 Device type Activated Carbon Canister
ManufacturerTIGG Corporation Model NoN-100XP or equivalent
Serial Number <u>NA</u> Installation Date <u>6</u> / <u>2004</u>
Control efficiency (%) 95-98% Capture efficiency (%) 100%
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method <u>Mfg. Info.</u> .
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft)
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100
Actual stack flow rate (ACFM) < 100 . Velocity (ft/sec)

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID_Tank #20 Description 12,869 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary Source <u>Y</u> es <u>X</u> No
Manufacturer <u>Modern Welding</u> Model No. <u>NA</u>
Serial Number <u>S-4869-TK20</u> . Installation Date <u>6</u> / <u>/ 2004</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #20 Device typeActivated Carbon Canister
Manufacturer TIGG Corporation . Model No. N-100XP or equivalent .
Serial Number <u>NA</u> Installation Date <u>6</u> / <u>/ 2004</u>
Control efficiency (%) <u>95-98%</u> . Capture efficiency (%) <u>100%</u> .
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method Mfg. Info.
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) Inside stack diameter (ft)
Stack temp (F) 62.4 . Design stack flow rate (ACFM) 100 .
Actual stack flow rate (ACFM) <u>< 100</u> . Velocity (ft/sec)

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID <u>Tank #30</u> . Description 12,869 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary SourceYes <u>X</u> No
Manufacturer <u>Modern Welding</u> Model No. <u>NA</u>
Serial Number <u>S-4869-TK30</u> Installation Date <u>3 / _ / 2009</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #30 . Device typeActivated Carbon Canister .
Manufacturer TIGG Corporation . Model No. N-100XP or equivalent .
Serial Number <u>NA</u> Installation Date <u>3 / _ / 2009</u>
Control efficiency (%) 95-98% Capture efficiency (%) 100%
Air pollutant(s) controlled <u>VOM/Organic HAP</u> . Efficiency estimation method <u>Mfg. Info.</u>
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft) 0.33
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100
Actual stack flow rate (ACFM) < 100 . Velocity (ft/sec)

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						



OMB No. 2060-0336, Approval Expires 06/30/2015 (40 CFR Part 71)

Federal Operating Permit Program (40 CFR Part 71)							
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2) A. General Information							
Emissions unit ID_Tank #40 Description_12.869 gallon capacity							
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .							
B. Emissions Unit Description							
Equipment type Liquid Storage Tank Temporary SourceYes _X_No							
Manufacturer Modern Welding . Model No. NA .							
Serial Number <u>S-4869-TK40</u> . Installation Date <u>5</u> / <u>1988</u>							
Articles being coated or degreased							
Application method							
Overspray (surface coating) (%) Drying method							
No. of dryers Tank capacity (degreasers) (gal)							
C. Associated Air Pollution Control Equipment							
Emissions unit ID_CC #40 Device type Activated Carbon Canister							
Manufacturer <u>TIGG Corporation</u> . Model No. <u>N-100XP or equivalent</u> .							
Serial Number <u>NA</u> Installation Date <u>5 / / 1988</u>							
Control efficiency (%) <u>95-98%</u> . Capture efficiency (%) <u>100%</u> .							
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method Mfg. Info.							
D. Ambient Impact Assessment							
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).							
Stack height (ft) 4 Inside stack diameter (ft) 0.33							
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100							
Actual stack flow rate (ACFM) <u>< 100</u> . Velocity (ft/sec)							

EUD-2

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
				-		



Environmental Protection Agency OMB No. 2060-0336, Approval Expires 06/30/2015
Federal Operating Permit Program (40 CFR Part 71)
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID_Tank #50 Description 12,869 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary SourceYes <u>X</u> No
Manufacturer Modern Welding . Model No. NA .
Serial Number <u>S-4869-TK50</u> . Installation Date <u>5</u> /// <u>1988</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #50 Device type Activated Carbon Canister
Manufacturer TIGG Corporation . Model No. N-100XP or equivalent .
Serial Number <u>NA</u> Installation Date <u>5</u> / <u>1988</u>
Control efficiency (%) 95-98% Capture efficiency (%) 100%
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method <u>Mfg. Info.</u> .
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft) 0.33
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100
Actual stack flow rate (ACFM) < 100 Velocity (ft/sec)

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)						
A. General Information						
Emissions unit ID_Tank #60 Description_12,869 gallon capacity						
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .						
B. Emissions Unit Description						
Equipment type <u>Liquid Storage Tank</u> Temporary Source <u> </u>						
Manufacturer <u>Modern Welding</u> . Model No. <u>NA</u> .						
Serial Number <u>S-4869-TK60</u> . Installation Date <u>5</u> // <u>1988</u>						
Articles being coated or degreased						
Application method						
Overspray (surface coating) (%) Drying method						
No. of dryers Tank capacity (degreasers) (gal)						
C. Associated Air Pollution Control Equipment						
Emissions unit ID_CC #60 . Device type <u>Activated Carbon Canister</u> .						
Manufacturer <u>TIGG Corporation</u> Model No. <u>N-100XP or equivalent</u> .						
Serial Number <u>NA</u> Installation Date <u>5</u> / <u>1988</u>						
Control efficiency (%) <u>95-98%</u> . Capture efficiency (%) <u>100%</u> .						
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method <u>Mfg. Info.</u>						
D. Ambient Impact Assessment						
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).						
Stack height (ft) 4 Inside stack diameter (ft) 0.33						
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100						
Actual stack flow rate (ACFM) <u>< 100</u> . Velocity (ft/sec)						

EUD-2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA		·				
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Federal Operating Permit Program (40 CFR Part 71)
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2) A. General Information
Emissions unit ID_Tank #300 Description 30,000 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> Temporary SourceYes <u>X</u> No
Manufacturer <u>Modern Welding</u> . Model No. <u>NA</u> .
Serial Number <u>S-4869-TK300</u> Installation Date <u>5</u> / <u>1988</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC#300 Device typeActivated Carbon Canister ManufacturerTIGG Corporation Model NoN-100XP or equivalent
Serial Number NA Installation Date 5 / 1988
Control efficiency (%) 95-98% Capture efficiency (%) 100%
Air pollutant(s) controlled VOM/Organic HAP. Efficiency estimation method Mfg. Info.
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft)
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100
Actual stack flow rate (ACFM) < 100 . Velocity (ft/sec)

2

EUD-2

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
				-		



Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID_Tank #302 Description 30,000 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary Source <u>Y</u> es <u>X</u> No
Manufacturer Modern Welding . Model No. NA .
Serial Number <u>S-4869-TK302</u> . Installation Date <u>5</u> / <u>1988</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #302 . Device type <u>Activated Carbon Canister</u> . Manufacturer <u>TIGG Corporation</u> . Model No. <u>N-100XP or equivalent</u> .
Serial Number <u>NA</u> . Installation Date <u>5</u> / <u>1988</u>
Control efficiency (%) <u>95-98%</u> . Capture efficiency (%) <u>100%</u> .
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method Mfg. Info
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft) 0.33
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100
Actual stack flow rate (ACFM) < 100 Velocity (ft/sec)

2

EUD-2

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						-
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Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID <u>Tank #304</u> . Description 30,000 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary Source <u>Y</u> es <u>X</u> No
Manufacturer <u>Modern Welding</u> . Model No. <u>NA</u> .
Serial Number <u>S-4869-TK304</u> . Installation Date <u>5 / _ / 1988</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #304 Device type <u>Activated Carbon Canister</u> . Manufacturer <u>TIGG Corporation</u> Model No. <u>N-100XP or equivalent</u> .
Serial Number <u>NA</u> Installation Date <u>5 / 1988</u>
Control efficiency (%) <u>95-98%</u> . Capture efficiency (%) <u>100%</u> .
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method <u>Mfg. Info</u> .
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft) 0.33
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100
Actual stack flow rate (ACFM) <u>< 100</u> . Velocity (ft/sec)

EUD-2

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/dạy)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
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Federal Operating Permit Program (40 CFR Part 71)

E	MISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A.	General Information
	Emissions unit ID_Tank #306 Description 30,000 gallon capacity
	SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
В.	Emissions Unit Description
	Equipment type <u>Liquid Storage Tank</u> . Temporary Source <u>Yes X</u> No
	Manufacturer Modern Welding . Model No. NA
	Serial Number S-4869-TK306 . Installation Date 5 / / 1988
	Articles being coated or degreased
	Application method
	Overspray (surface coating) (%) Drying method
	No. of dryers Tank capacity (degreasers) (gal)
C.	Associated Air Pollution Control Equipment
	Emissions unit ID_CC #306 . Device type <u>Activated Carbon Canister</u> . Manufacturer <u>TIGG Corporation</u> . Model No. <u>N-100XP or equivalent</u> .
	Serial Number NA Installation Date 5 / 1988
	Control efficiency (%) 95-98% Capture efficiency (%) 100%
Ai	r pollutant(s) controlled <u>VOM/Organic HAP</u> . Efficiency estimation method <u>Mfg. Info.</u>
D.	Ambient Impact Assessment
	This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
	Stack height (ft) 4 Inside stack diameter (ft) 0.33
	Stack temp (F) 62.4 Design stack flow rate (ACFM) 100
	Actual stack flow rate (ACFM) < 100 Velocity (ft/sec)

2

EUD-2

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA				-		
				-		



Federal Operating Permit Program (40 CFR Part 71)								
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)								
A. General Information Emissions unit ID Tank #308 Description 30,000 gallon capacity								
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .								
B. Emissions Unit Description								
Equipment type <u>Liquid Storage Tank</u> . Temporary Source <u>Y</u> es <u>X</u> No								
Manufacturer <u>Modern Welding</u> , Model No								
Serial Number <u>S-4869-TK308</u> Installation Date <u>5</u> / <u>1988</u>								
Articles being coated or degreased								
Application method								
Overspray (surface coating) (%) Drying method								
No. of dryers Tank capacity (degreasers) (gal)								
C. Associated Air Pollution Control Equipment								
Emissions unit ID_CC #308 Device type Activated Carbon Canister Manufacturer TIGG Corporation Model No. N-100XP or equivalent .								
Serial Number <u>NA</u> Installation Date <u>5 / / 1988</u>								
Control efficiency (%) 95-98% Capture efficiency (%) 100%								
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method Mfg. Info.								
D. Ambient Impact Assessment								
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).								
Stack height (ft) 4 Inside stack diameter (ft)								
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100								
Actual stack flow rate (ACFM) <u>< 100</u> . Velocity (ft/sec)								

EUD-2

2

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
· .						



Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID Tank #310 Description 30,000 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary SourceYes <u>X_</u> No
Manufacturer Modern Welding . Model No. NA
Serial Number <u>S-4869-TK310</u> Installation Date <u>5</u> / <u>1988</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #310 Device type <u>Activated Carbon Canister</u> . Manufacturer <u>TIGG Corporation</u> Model No. <u>N-100XP or equivalent</u> .
Serial Number <u>NA</u> Installation Date <u>5</u> / <u>1988</u>
Control efficiency (%) 95-98% Capture efficiency (%) 100%
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method <u>Mfg. Info.</u>
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft) 0.33
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100
Actual stack flow rate (ACFM) < 100 Velocity (ft/sec)

2

EUD-2

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA	·					
	·					



Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID Tank #312 . Description 10,000 gallon capacity .
SIC Code (4-digit) <u>4953</u> SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type Liquid Storage Tank Temporary SourceYes _X_No
Manufacturer Modern Welding . Model No. NA
Serial Number <u>S-4869-TK312</u> Installation Date <u>5 / _ / 1988</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #312 . Device type <u>Activated Carbon Canister</u> . Manufacturer <u>TIGG Corporation</u> . Model No. <u>N-100XP or equivalent</u> .
Serial Number NA Installation Date 5 / 1988
Control efficiency (%) 95-98% Capture efficiency (%) 100%
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation methodMfg. Info
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft) 0.33
Stack temp (F) 62.4 Design stack flow rate (ACFM) 100 .
Actual stack flow rate (ACFM) < 100 . Velocity (ft/sec)

EUD-2

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
NA						
		,				



Federal Operating Permit Program (40 CFR Part 71)
EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2) A. General Information
Emissions unit ID_Tank #314 Description_10,000 gallon capacity
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary SourceYes _ X _No
Manufacturer <u>Modern Welding</u> Model No. <u>NA</u>
Serial Number <u>S-4869-TK314</u> Installation Date <u>5 / _ / 1988</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_CC #314 Device type <u>Activated Carbon Canister</u> . Manufacturer <u>TIGG Corporation</u> Model No. <u>N-100XP or equivalent</u> .
Serial Number <u>NA</u> Installation Date <u>5</u> / <u>1988</u>
Control efficiency (%) <u>95-98%</u> . Capture efficiency (%) <u>100%</u> .
Air pollutant(s) controlled VOM/Organic HAP . Efficiency estimation method <u>Mfg. Info.</u>
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) 4 Inside stack diameter (ft)
Stack temp (F) 62.4 . Design stack flow rate (ACFM) 100 .
Actual stack flow rate (ACFM) <u>< 100</u> . Velocity (ft/sec)

2

EUD-2

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (Ib/gal)
NA						



Federal Operating Permit Program (40 CFR Part 71)

EMISSIONS UNIT DESCRIPTION FOR VOC EMITTING SOURCES (EUD-2)
A. General Information
Emissions unit ID <u>Tank #390</u> . Description 30,000 gallon capacity.
SIC Code (4-digit) <u>4953</u> . SCC Code <u>30199998</u> .
B. Emissions Unit Description
Equipment type <u>Liquid Storage Tank</u> . Temporary SourceYes <u>X</u> No
Manufacturer <u>Modern Welding</u> . Model No. <u>NA</u> .
Serial Number <u>S-4869-TK390</u> . Installation Date <u>5</u> // / <u>1988</u>
Articles being coated or degreased
Application method
Overspray (surface coating) (%) Drying method
No. of dryers Tank capacity (degreasers) (gal)
C. Associated Air Pollution Control Equipment
Emissions unit ID_None Device type Manufacturer Model No
Serial Number Installation Date//
Control efficiency (%) Capture efficiency (%)
Air pollutant(s) controlled Efficiency estimation method
D. Ambient Impact Assessment
This information must be completed by temporary sources or when ambient impact assessment is an applicable requirement for this emissions unit (this is not common).
Stack height (ft) Inside stack diameter (ft)
Stack temp (F) Design stack flow rate (ACFM)
Actual stack flow rate (ACFM) Velocity (ft/sec)

EUD-2

E. VOC-containing Substance Data

List each VOC-containing substance consumed, processed or produced at the emissions unit that is emitted into the air. In the name column, if providing a brand name, include the name of the manufacture; if the substance contains HAP, list the constituent HAP.

2

Substance Name (Chemical, Brand Name)	CAS No.	Substance Type	Actual Usage (gal/yr)	Max Usage (gal/day)	Max Usage (gal/year)	VOC Content (lb/gal)
Diesel Fuel			NA			
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			·			



Federal Operating Permit Program (40 CFR Part 71)

EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form GIS. If form FEE does not need to be submitted with the application, do not calculate actual emissions.

Α.	Emissions	Unit ID	Unit #2

B. Identification and Quantification of Emissions

	Emission Rates			
	Actual	Potential to Emit		
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.
СО		2.55	6.6	
VOM		8.0	0.9	
NOx		3.26	4.0	
PM2.5		0.1405	0.6156	
PM10		0.6388	2.8	
Part		0.6388	2.8	
SOx		1.21	7.7	
HCI/CI2		2.19	9.92	

	Emission Rates			·
	Actual Potential to Emit		mit	
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.
Hg		0.0028	0.0125	7439-97-6
As		0.0020	0.0088	7440-38-2
Be		0.0020	0.0088	7440-41-7
Cd		0.0050	0.0221	7440-43-9
Cr		0.0020	0.0088	7440-47-3
Sb		0.0020	0.0088	7440-31-5
Pb		0.0050	0.0221	7439-92-1
Ni		0.0020	0.0088	7440-02-0
Dioxin/Furan		4.38 x 10 ⁻⁹	1.92 x 10 ⁻⁸	



Federal Operating Permit Program (40 CFR Part 71)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A.	Emissions	Unit ID	Unit #3	

B. Identification and Quantification of Emissions

		Emission Rates	S	
	Actual Potential to Emit			
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.
со		2.65	6.6	
VOM		8.0	0.9	
NOx		3.26	4.0	
PM2.5		0.1462	0.6404	
PM10		0.6646	2.91	
Part		0.6646	2.91	
SOx		1.21	7.7	
HCI/CI2		2.22	10.03	

		Emission Rates		
	Actual Potential to Emit			
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.
Hg		0.0029	0.0130	7439-97-6
As		0.0021	0.0092	7440-38-2
Be		0.0021	0.0092	7440-41-7
Cd		0.0052	0.0229	7440-43-9
Cr		0.0021	0.0092	7440-47-3
Sb		0.0021	0.0092	7440-31-5
Pb		0.0052	0.0229	7439-92-1
Ni		0.0021	0.0092	7440-02-0
Dioxin/Furan		2.73 x 10 ⁻⁸	1.20 x 10 ⁻⁷	



Federal Operating Permit Program (40 CFR Part 71)

EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form GIS. If form FEE does not need to be submitted with the application, do not calculate actual emissions.

A.	Emissions	Unit ID	Unit #4

B. Identification and Quantification of Emissions

	Emission Rates				
	Actual Potential to Emit				
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.	
со		8.03	13.86		
VOM		8	3.1		
NOx		14.61	61.6	·	
PM2.5		0.4432	1.94		
PM10		2.01	16.92		
Part		2.01	16.92		
SOx		4.23	50.76		
HCI/CI2		2.38	10.40		

·		Emission Rates		
	Actual Potential to Emit			
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.
Hg		0.0090	0.0393	7439-97-6
As		0.0064	0.0278	7440-38-2
Ве		0.0064	0.0278	7440-41-7
Cd		0.0159	0.0695	7440-43-9
Cr		0.0064	0.0278	7440-47-3
Sb		0.0064	0.0278	7440-31-5
Pb		0.0159	0.0695	7439-92-1
Ni		0.0064	0.0278	7440-02-0
Dioxin/Furan		1.52 x 10 ⁻⁷	6.65 x 10 ⁻⁷	



Federal Operating Permit Program (40 CFR Part 71)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID Bulk Feed Building (BF Bldg)	
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B. Identification and Quantification of Emissions

	Emission Rates				
	Actual	Potential to Emit			
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.	
VOM		0.5836	2.56		
Benzene		0.0043	0.0188	71-43-2	



Federal Operating Permit Program (40 CFR Part 71)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. E	missions	Unit ID	Drum Crusher
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B. Identification and Quantification of Emissions

		Emission Rate		
	Actual	Potential to Emit		
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.
VOM		0.883	3.87	
Benzene		0.057	0.248	71-43-2
				·
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Federal Operating Permit Program (40 CFR Part 71)

EMISSION CALCULATIONS (EMISS

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID LabPack Repack	
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B. Identification and Quantification of Emissions

	Emission Rates					
	Actual	Potential to E	mit			
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)		CAS No.	
VOM	·	0.3321	1.45			
Benzene		0.0552	0.2418	71-43-2		
						·
						·



Federal Operating Permit Program (40 CFR Part 71)

EMISSION (CALCUL	ATIONS	(EMISS)
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Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form GIS. If form FEE does not need to be submitted with the application, do not calculate actual emissions.

A.	Emissions	Unit ID	MP-1

B. Identification and Quantification of Emissions

	Emission Rates			
	Actual Potential to Emit		_	
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.
VOM		0.0545	0.2387	·
Benzene		0.0366	0.0495	71-43-2
				·



Federal Operating Permit Program (40 CFR Part 71)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A.	Emissions	Unit ID	MP-2

B. Identification and Quantification of Emissions

	Emission Rates			
	Actual Potential to Emit			
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.
VOM		0.0545	0.2387	
Benzene		0.0366	0.0495	71-43-2
	·			
	·			



Federal Operating Permit Program (40 CFR Part 71)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A.	Emissions	Unit ID	Boiler #1
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B. Identification and Quantification of Emissions

	Emission Rates			
	Actual Potential to Emit			
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.
CO S		0.863	3.79	
VOM		0.057	0.248	
NOx		1.03	4.51	
PM2.5		0.078	0.343	
PM10		0.078	0.343	
Part		0.078	0.343	
NH3		0.033	0.144	
SOx		0.006	0.027	



Federal Operating Permit Program (40 CFR Part 71)

EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form **GIS**. If form **FEE** does not need to be submitted with the application, do not calculate actual emissions.

A. Emissions Unit ID <u>EGEN 1</u>	
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B. Identification and Quantification of Emissions

	Emission Rates			
	Actual	Potential to E	mit	
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.
СО		0.36	0.09	·
VOM		0.13	0.03	
NOx		1.69	0.42	
PM2.5		0.12	0.03	
PM10		0.12	0.03	
Part		0.12	0.03	
SOx		0.11	0.03	
HAP		0.0005	0.0001	



Federal Operating Permit Program (40 CFR Part 71)

EMISSION CALCULATIONS (EMISS)

Calculate potential to emit (PTE) for applicability purposes and actual emissions for fee purposes for each emissions unit, control device, or alternative operating scenario identified in section I of form GIS. If form FEE does not need to be submitted with the application, do not calculate actual emissions.

Α.	Emissions	Unit ID	EGEN 2

B. Identification and Quantification of Emissions

		Emission Rates			
	Actual	Potential to E	mit		
Air Pollutants	Annual Emissions (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)	CAS No.	
СО		0.36	0.09		
VOM		0.13	0.03		
NOx		1.69	0.42		
PM2.5		0.12	0.03		
PM10		0.12	0.03		
Part		0.12	0.03		
SOx		0.11	0.03		
НАР		0.0005	0.0001		



Federal Operating Permit Program (40 CFR Part 71)

POTENTIAL TO EMIT (PTE)

For each unit with emissions that count towards applicability, list the emissions unit ID and the PTE for the air pollutants listed below and sum them up to show totals for the facility. You may find it helpful to complete form **EMISS** before completing this form. Show other pollutants not listed that are present in major amounts at the facility on attachment in a similar fashion. You may round values to the nearest

tenth of a ton.	Also report facil	ity totals in section J	of form GIS.

Emissions Unit ID	Regulated Air Pollutants and Pollutants for which the Source is Major (tons/yr)						
	NOx	VOC	SO2	PM10	СО	Lead	HAP
UNIT #2	4.0	0.9	7.7	2.80	6.6	0.0221	11.04
UNIT #3	4.0	0.9	7.7	2.91	6.6	0.0221	10.40
UNIT #4	61.6	3.1	51.76	8.82	13.86	0.0695	11.49
LABPACK REPACK		1.45					0.2418
MP-1		0.2387					0.0495
MP-2		0.2387					0.0495
DRUM CRUSHER		3.87					0.248
TANK #2		0.1348				.	0.0002
TANK #4		0.0203		·			3.65 X 10 ⁻⁵
TANK #6		0.0133					2.40 X 10 ⁻⁵

Emissions Unit ID	Regulated Air Pollutants and Pollutants for which the Source is Major (tons/yr)							
	NOx	VOC	SO2	PM10	СО	Lead	HAP	
TANK #8		0.0256					4.61 X 10 ⁻⁵	
TANK #10		0.0125					2.25 X 10 ⁻⁵	
TANK #20		0.0460			:		0.0001	
TANK #30		0.0203		·		-	3.65 X 10 ⁻⁵	
TANK #40		0.0143					2.58 X 10 ⁻⁵	
TANK #50		0.0085					1.53 X 10 ⁻⁵	
TANK #60		0.0257					4.62 X 10 ⁻⁵	
TANK #300		0.1454					0.0003	
TANK #302		0.4224					0.0008	
TANK #304		0.3094		·	•		0.0006	
TANK #306		1.29					0.0023	
TANK #308		1.62					0.0029	
TANK #310		2.18					0.0039	
TANK #312		3.23					0.0058	
TANK #314		0.4736					0.0009	

Emissions Unit ID	Regulated Air Pollutants and Pollutants for which the Source is Major (tons/yr)						
	NOx	voc	SO2	PM10	СО	Lead	HAP
BF BLDG		2.56		·			0.0188
BOILER #1	4.51	0.248	0.027	0.343	3.79		
FUGITIVE EQUIP LEAKS		0.0390					0.0014
EGEN1	0.42	0.03	0.03	0.03	0.09	0.0	0.0001
EGEN2	0.42	0.03	0.03	0.03	0.09	0.0	0.0001
	:						
					-		
FACIILTY TOTALS	74.95	23.60	67.25	14.93	30.94	0.1137	33.40



Federal Operating Permit Program (40 CFR Part 71)

CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS (CTAC)

This form must be completed, signed by the "Responsible Official" designated for the facility or emission unit, and sent with each submission of documents (i.e., application forms, updates to applications, reports, or any information required by a part 71 permit).

Name: (Last) Harris	(First) <u>D</u>	ouglas	<u>.</u> (M
Title General Manager	· · · · · · · · · · · · · · · · · · ·		٠.
Street or P.O. Box #7 Mob	ile Avenue		-
City Sauget	State <u>IL</u>	. ZIP <u>62201</u> . – <u>1069</u>	<u>9.</u>
Telephone (<u>618.</u>) <u>271 .</u> - <u>28</u>	3 <u>04 </u>	simile (<u>618.) 271 - 2128</u>	<u>3</u> .
B. Certification of Truth, Ac responsible official)	curacy and Complete	ness (to be signed by the	
I certify under penalty of law, to reasonable inquiry, the statem are true, accurate and comple	nents and information co ete.	ontained in these documer	nts
Name (signed) Douglas Ha	as Harris		
		41 11	

APPENDIX A: EMISSION CALCULATIONS

Vessel Contents Analysis

Vessel volume (ft3) = 7.3524

R = 998.9 (1

(mmHg)(ft3)/(lbmole)(K)

Assumptions:

1. Each container contents is uniformly representative of the overall waste mixture received at the plant.

2. The overall waste mixture at the plant is characterized by the top organic constituents in waste received for 2007 - 2011.

Α	В	С	D	E	F	G	Н	l	J
VOC	MW (lb/lbmole)	Weight (lbs)	Ibmoles	Xi	Psati	pi	Vapor (Ibmoles)	Vapor (lbs)	Comments
acetonitrile	41.05	3,361,228	81,881	0.0100	86.37	0.86	0.00002	0.00087	
acrylonitrile	53.1	804,316	15,147	0.0018	105.83	0.20	4.83E-06	0.00026	
atrazine	215.68	356,148	1,651	0.0002	0.00	0.00	1.44E-15	3.10E-13	
cyanide compounds	27.03	138,879	5,138	0.0006	1.00	0.00	1.55E-08	4.19E-07	
ethylbenzene	106.17	633,274	5,965	0.0007	9.51	0.01	1.71E-07	0.00002	
hydrazine	32.05	180,238	5,624	0.0007	10.00	0.01	1.69E-07	0.00001	:
methanol	32.04	6,070,501	189,466	0.0231	126.94	2.93	0.00007	0.00232	
methyl isobutyl ketone	100.16	3,042,483	30,376	0.0037	19.28	0.07	1.77E-06	0.00018	
methyl tert-butyl ether	88.15	405,413	4,599	0.0006	273.71	0.15	3.79E-06	0.00033	
n-butyl alcohol	74.12	1,503,986	20,291	0.0025	6.16	0.02	3.77E-07	0.00003	
n-hexane	86.18	747,614	8,675	0.0011	151.54	0.16	3.96E-06	0.00034	
nitrate compounds	84.99	181,239	2,132	0.0003	0.00	0.00	0.00E+00	0.00E+00	None in vapor
pthalic anhydride	148.1	154,635	1,044	0.0001	0.00	0.00	0.00E+00	0.00E+00	None in vapor
pyridine	79.1	169,554	2,144	0.0003	45.09	0.01	2.91E-07	0.00002	
styrene	104.15	1,915,487	18,392	0.0022	6.18	0.01	3.43E-07	0.00004	
toluene	92.13	8,657,468	93,970	0.0115	28.44	0.33	0.00001	0.00074	, ,
triethylamine	101.2	850,752	8,407	0.0010	67.78	0.07	1.72E-06	0.00017	
xylene	106.17	2,328,688	21,934	0.0027	8.30	0.02	5.49E-07	0.00006	
			- ,						Avg volatility for smaller amounts VOM
as ethanol	46.07	93,612,150	2,031,955	0.2479	59.16	14.67	0.00036	0.01669	in waste
as water	18.02	93,612,150	5,194,903	0.6339	23.69	15.01	0.00037	0.00668	
solids (as lead)	207.2	93,612,150	451,796	0.0551					None in vapor

VOM Emission Factor Calculation for Drum Crusher

Emission Factor = Summation of Pounds VOM from Column J above

= 0.0221 pounds per drum

Maximum rate of crushing = 40 drums per hour

Maximum VOM emission rate = 0.0221 x 40 = 0.8833 pounds VOM per hour

Maximum annual VOM rate = $0.8833 \times 8,760/2,000 = 3.87$ tons VOM per year

APPENDIX B: CURRENT NOTIFICATION OF COMPLIANCE (NOC) OPL SUMMARY

UNITS 2/3 OPERATING PARAMETER LIMITS 1

		•		D. C.
Operating Parameter	Units	Limits	Test Date	Performance <u>Standards</u>
Maximum Total Pumpable Waste (Hourly Rolling Total)	Lb/hr	3107	Jan, 1993	DRE, D/F
Maximum Total Hazardous Waste (Hourly Rolling Total)	Lb/hr	4017	Jan, 1993	DRE, D/F
Maximum Stack Gas Flow Rate (Hourly Rolling Average)	Acfm	15,147	Jan, 1993	DRE, D/F, Part., SVM, LVM
Minimum Primary Combustion Chamber Temperature (Hourly Rolling Average)	Deg F	1686	Dec, 2009	DRE, D/F
Minimum Secondary Combustion Chamber Temperature (Hourly Rolling Average)	Deg F	1877	Dec., 2009	DRE, D/F
Maximum Baghouse Inlet Temperature (Hourly Rolling verage)	Deg F	420	Dec, 2009	D/F, SVM, LVM
Max. Pump. Low Volatile Metals Feedrate (12 Hour Rolling Total)	Lb/hr	46	Sep, 2008	LVM
Max. Total Low Volatile Metals Feedrate (12 Hour Rolling Total)	Lb/hr	47	Sep, 2008	LVM
Maximum Semi Volatile Metals Feedrate (12 Hour Rolling Total)	Lb/hr	63	Sep, 2008	SVM
Maximum Mercury Feedrate (12 Hour Rolling Total)	Lb/hr	0.0019	Aug, 2008	Hg
Maximum Chlorine Feedrate (12 Hour Rolling Total)	Lb/hr	218	Aug, 2008	SVM, LVM HCI/Ç12
Maximum Ash Feedrate (12 Hour Rolling Total)	Lb/hr	617	Dec, 2009	Part.
Minimum Sorbent Feedrate (Hourly Rolling Average)	Lb/lb Cl₂	1.57	Dec, 2009	нсисі2
Minimum Carrier Fluid Flowrate (Hourly Rolling Average)	Gal/lb Cl ₂	1.46	Dec, 2009	HCI/Cl2

¹ Operating parameter limits in table reflect more conservative value between Unit 2 and Unit 3 test data.

UNIT 4 OPERATING PARAMETER LIMITS

Operating Parameter	<u>Units</u>	<u>Limits</u>	Test Date	Performance Standards
Maximum Total Pumpable Waste (Hourly Rolling Total)	Lb/hr	PCC - 3291 SCC - 1176	Dec, 2009	DRE, D/F
Maximum Total Hazardous Waste (Hourly Rolling Total)	Lb/hr	PCC – 12,897 SCC - 1176	Dec, 2009	DRE, D/F
Maximum Stack Gas Flow Rate (Hourly Rolling Average)	Acfm	37,432	Dec, 2009	DRE, D/F, Part., SVM, LVM
Minimum Primary Combustion Chamber Temperature (Hourly Rolling Average)	Deg F	1499	Dec, 2009	DRE, D/F
Minimum Secondary Combustion Chamber Temperature (Hourly Rolling Average)	Deg F	1886	Dec, 2009	DRE, D/F
Maximum Baghouse Inlet Temperature (Hourly Rolling Average)	Deg F	400	Dec, 2009	D/F, SVM, LVM
Max. Pump. Low Volatile Metals bedrate (12 Hour Rolling Total)	Lb/hr	47	Aug., 2008	LVM
Max. Total Low Volatile Metals Feedrate (12 Hour Rolling Total)	Lb/hr	50	Aug., 2008	LVM
Maximum Semi Volatile Metals Feedrate (12 Hour Rolling Total)	Lb/hr	64	Aug., 2008	SVM .
Maximum Mercury Feed rate (12 Hour Rolling Total)	Lb/hr	0.026	Aug., 2008	Hg
Maximum Chlorine Feed rate (12 Hour Rolling Total)	Lb/hr	229	Dec, 2009	SVM, LVM, HCI/C12
Maximum Ash Feed Rate (12 Hour Rolling Total)	Lb/hr	6444	Dec, 2009	Part.
Carbon Injection Feedrate (Hourly Rolling Average)	Lb/hr	6.2	Dec, 2009	D/F, Hg
Minimum Sorbent Feedrate (Hourly Rolling Average)	Lb/Ib Cl ₂	2.25	Dec, 2009	HCI/Cl2
Minimum Carrier Fluid Flowrate (Hourly Rolling Average)	Gal/lb Cl ₂	3.10	Dec, 2009	HCI/Cl2